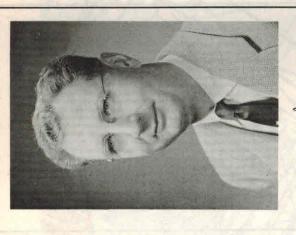
Gene

Van Sickle,

W9K.

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Indianapolis, Indiana 46240 ROBERT CASKEY, W9DNQ

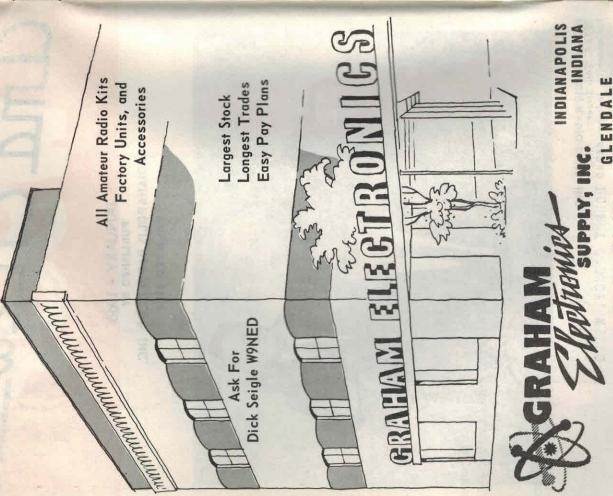
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HAM HEADQUARTERS



The Indianapolis Radio Club meets on the second and fourth Fridays of each month except July and August in the Indianapolis Park Board Building at 29th and Harding Streets. Meetings start promptly at 8:00 P.M., EST.

AMA-CHEWER STAFF

PRESIDENT	Bert Brouse 6995 Barr Will Drive	K9JSF CL 5-9282
EDITOR	Marshall Lincoln 3514 North Riley	K9KTL LI 7-8148
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Ama-Chewer is published monthly by and for the I.R.C. and all amateurs in the Indianapolis area. Non-members may subscribe for \$1.00 a year.

Publication is on the third Friday of each month, with all news items and ads due no later than the first Friday of each month.

Ham Ads (5 line limit) are free to members and subscribers. Others may submit ads for 50 cents each.

Ama-Chewer welcomes the forwarding of information on coming events and activities of other clubs for publication.

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THE PRESIDENT'S FREQUENCY

In December approximately three years ago I remember singing my swan song in this manner after a very delightful year as president of the Indianapolis Radio Club.

Looking back, I have some very fond memories of meetings and association of ham buddies I will never forget, the directors meetings and the help given me by both the directors and the membership and last but not the least, the coffee and donuts at the meetings and the fattening food at the directors meetings that helped to keep me fat and healthy.

Although the attendance was not up to par as I had hoped for, I realize you can't be lucky all the time with a large attendance as I had my first year as President. I suppose there are too many other things of interest nowaday that attracted some members from the radio club to other activities.

In the past year I also have many persons to thank for the program portion of the meetings each being specially prepared for that meeting and all being equally interesting. In the year or years to come I hope to be present at each and every meeting and able to assist in any way I can to further the continued prosperity the club has had in the past. If I can assist in any way to help the new officers in any way please feel free to call on me at any time. Again thanks to a good group of guys.

Bert W. Brouse K9JS

-}<

NEW OFFICERS

On the cover are the shining faces of our new officers, minus two who were not present when the photog got the group together. In the front are Jerry Lucas, W9APJ, president; Alvey Pittman, W9JJC, vice-president, and Dick Kinnett, K9VIE, treasurer. Backing them up are Bill Lueth, W9DSC, chief op, and Bert Brouse, K9JSF, director. Not present were Ward Studor, WA9CCX, secretary, and Lewis Carmean, WA9DYT, director. They all deserve your help in managing the club's affairs in the coming year, and they all want your ideas on future club activities.

COMING ACTIVITIES

The next club meeting will be January 14, at which time the new officers will be installed. There will be a joint meeting of the old and new officers the week before. All of these gallant leaders want very much to hear your comments on club activities and suggestions for programs. Get a hold of any of them before the January directors' meeting, or bring your ideas to the January business meeting. Make yourself heard. THIS IS YOUR CLUB.

**

PUT PURPOSE IN YOUR OPERATING

If you haven't tried it, traffic handling may seem dull, silly or frightening, depending on your background. However, this activity is a very useful way to perform our responsibility as radio operators using valuable spectrum space. To help those who haven't been bitten yet by the traffic bug, there is on pages 6 and 7 of this issue a reprint of an ARRL operating aid on traffic procedure. It's intended mainly for CW, but many of the procedures also apply to fone. Read it over, then listen to some of the nets. See what you're missing?

* *

PUZZLE

Last month you were asked for the least number of diodes that may be used to obtain full wave rectification. The answer is one. Use this circuit:



This circuit is sometimes used as an instrument rectifier. We didn't say it had to be efficient, did we?

Now try this one: suppose you had two jobs offered you.
Job A offered a starting salary of \$6,000 with a \$1,000
raise annually. Job B starts at the same salary, but has a \$250 raise every 6 months. Which one would you accept?



PROGRAM REVIEW

Hank Wolfla, K9LZJ, shown above, gave the club an interesting demonstration on the fascinating properties of microwaves. Using equipment borrowed from Purdue University, he glowingly described its cost in gigadollars, then showed us it works too. With it he was able to transmit a signal halfway across the meeting room, bounce it off a piece of metal, shut it off completely by putting his hand in front of the beam, and in general let it be known that these electrons are mighty tricky critters.

v. 26

Frank Owens, K9MWG, shown on the next page, gave the club another interesting and informative program on transformers. Frank first told how to measure a transformer's cross sectional area as a first step in determining its rating, then described how transformers are made commercially. He explained how to load a transformer until the secondary voltage drops to 7½ to 10% of its unloaded value for a single secondary transformer, or 5% for a multiple secondary transformer to approximate the capacity of that pile of iron and



copper you bought so cheap at the last auction. Frank demonstrated and explained the B-H curves of the transformer steel by using an oscilloscope, and closed by demonstrating a saturable reactor used to make a regulated transformer.

Again I say, you should have been there. We can't keep on telling you everything that goes on at club meetings.

*	
*	MONTH
30	7 THE
30	OF
*	SPECIALS
	GRAHAMS
30	

	EICO 753 with AC Power \$320.00	\$320.00
	Collins 7583 Receiver \$495.00	\$495.00
the club	Collins 75A2A Receiver \$225.00	\$225.00
ansformers.	Heath HX-10 Transmitter \$265.00	\$265.00
ross sec-	Hallicrafter SX-122 \$220.00	\$220.00
ting, then	R.M.E. VHF-126 Converter \$175.06	\$175.06
He ex-	Hallicrafter SX-101A \$219,00	\$219.00
dary volt-	Hallicrafter SX-117 \$298.00	\$298.00
a single	Clegg 99er \$119.00	\$119.00
dary trans-	Heath HW-32 with AC Supply \$150.00	\$150.00
4 4 400		

AMATEUR MESSAGE FORM

Every message originated and handled should contain the following component parts in the order given:

1. PREAMBLE

- a. Number beginning with I each month or year
- b. Precedence (R, P2, P or Emergency see below)
 - c. Handling Instructions (see delail below).

 - d. Station of Origin
- e. Check number of words or groups in the text
 - f. Place of Origin g. Time filed
 - h. Date

 - 2. ADDRESS 3. TEXT
- 4. SIGNATURE
- C.W. Example: NR 1 R HXA W1AW CK 8 NEWINGTON CONN 1830Z JULY 2 DONALD R SMITH AA 164 EAST SIXTH AVE AA NORTH RIVER CITY MO AA PHONE 733 3698 BT HAPPY BIRTHDAY X SEE YOU SOON X LOVE BT DIANA AR.

the parts of the address. BT separates the address from the text and the text from the signature. AR marks end of nessage; this is followed by B if there is another message to follow, by N if this is the only or last message. It is customary to copy the preamble, parts of the address, text and signature on separate lines. On RTTY — Same as c.w. format above, with following exceptions: (1) Use TO before address. (2) On C.W.: note that X, when used in the text as punctuation, counts as a word. The prosign AA separates

Separate parts of address by an extra space instead of AA. (3) Use SGD preceding the signature. (4) a "CFM" line under the signature, consisting of all names, numerals and unusual words in the message, in the order transmitted.

On Phone—In general, say the meanings of all procedural signals. The above message on phone would go something like this: "Number one, routine, HX Alpha, WIAW, check eight, Newington, Connecticut, one eight thuhree zero zulu, July two, Donald R (as in Romeo) Smith, one six fower East Sixth Avenue, North River City, Missouri, phone sev-wen thuhree thuhree, thuhree six niyen eight, happy birthday X-ray see you soon X-ray love, Diana, end of message, no more." Speak in measured tones, emphasizing ciery syllable. Spell out phonetically all difficult or unusual words, but do not spell out common ones.

Precedences

agencies during emergencies requesting supplies, materials or instructions vital to relief of stricken populace in emergency areas. During normal times, it will be *sery area*. On .cw., this designation will always be spelled out. When in MERGENCY - Any message having life and death urgency to any person or group of persons, which is transmitted by amateur radio in the absence of regular commercial facilities. This includes official messages of welfare doubt, do not use it.

PRIORITY — Important messages having a specific time limit. Official messages not covered in the "Emergency" category. Press dispatches and other emergency-related traffic not of the utmost urgency. Notification of death or injury in a disaster area, personal or official. Use abbrevia-tion P on c.w. Inquiries as to the leadth or welfare of someone in the disaster area are handled after the abov-are cleared and are designated "priority two" (P2).

designation. In disaster situation, traffic labeled "Routine" (R on c.w.) should be handled last, or not at all when circuits are busy with emergency or priority traffic. Most traffic handled on amateur circuits in normal times will ROUTINE - Most traffic in normal times will bear this

The precedence will follow the message number. For example, on c.w., 207 R, or 207 EMERGENCY. On phone, "Two Zero Seven, Routine (or Emergency)" on phone.

Handling Instructions

HXA— (Followed by number.) Collect landline delivery authorized by addressee within.....miles. (If no number, authorization is unlimited.)

livered within....hours of filing time; service originat-HXB - (Followed by number.) Cancel message if not deing station.

HXC - Report date and time of delivery (TOD) to originating station. HXD — Report to originating station the identity of station from which received, plus date and time. Report identity of station to which relayed, plus date and time, or if delivered report date, time and method of delivery. HXE - Delivering station get reply from addressee, originate message back. HXF - (Followed by number.) Hold delivery until.....

This prosign (when used) will be inserted in the message preamble before the station of origin, thus: NR 207 R HXASO WHAW CK 12 . . (etc.). If more than one HX prosign is used, they can be combined if no numbers are to be inserted, otherwise the HX should be repeated, thus: NR 207 R HXAC WIAW . . (etc.), on phone, use phonetics for the letter or letters following the HX, to insure accuracy.

Special ARRL ON Signals For C.W. Net Use

control Answer in prearranged order.
Act as relay between.
All net stations copy.
I have a message for all net stations.
Net, is, directed (controlled by net of

Entire net stand by.

Net is free (not controlled).

Take over as net control station.

Your net frequency is high.

Net stations report in.* station) OND*

am reporting into the net. (Follow with list of traffic or QRU.)

Can you copy me? ONK. CNO

Unable to copy you. ONO

Move frequency to and wait for to finish handling traffic. Then send him traffic for . . . *ONO

Following stations are in the net.* (Follow with list.) Request list of stations in the net. I request permission to leave the net for and receive traffic. minutes. ONR* LNO

The net has traffic for you. Stand by.

Establish contact with ... on this frequency. If successful, move to ... and send him traffic for NONO*

*XNO MNO

Zero beat your signal with mine. * For use only by Net Control Station. to clear traffic with ZNO

C.W. Abbreviations and Procedure Signals Separation between parts of address or sig-All Before Addressee All After Address ADEE ADR

ndicator denoting use of an ARRL numbered message in the text. End of transmission, End of message ARL

Double dash (separates text from address and Break; break me; bk in Between Wait

Juestion mark; repeat Confirm; I confirm es; correct signature). Check CFM

so ahead; invitation to transmit No; negative reamble Number NR NR PBL

Received solid Word after Word before End of QSO Thank you Signature SIG WA WB

INTERNATIONAL Q SIGNALS FOR TRAFFIC HANDLING

Have you anything for me? I have nothing Are you ready? I am ready.

OSG Shall I send messages at a time?
Send messages at a time.
OSK can you hear me between your signals? I can you give me acknowledgment of receipt?
Can you give me acknowledgment of receipt?
I give you acknowledgment of receipt?
OSM Shall I repeat the last message I sent you?
Repeat the last message you sent me.
OSP Will you relay to. A will relay to.
OSZ Shall I send each word twice? Send each word

twice. Shall I cancel number.....as if it had not been sent? Cancel number.....as if it had not been sent. OTA

Do you agree with my check? I do not agree with your check. I will repeat the first letter of each word and the first figure of each OTB

number. How many messages have you to send? I have.....messages for you (or for.....). OTC

Notes on the Use of ON Signals

- 1. The QN signals listed are special ARRL signals for use in amateur c.w. nets only. Other meanings that may be used in other services do not apply.
- meanings when used by the NCS and net stations; in this case the NCS meaning is asterisk (*). Others have slightly different stations only; these are marked with an Some QN signals are for use by net control marked with an asterisk (*).
- reporting into the net (e.g., W9NCS DE W9NET QNI QNC), it carries its second used. Examples: (a) QNC, when used as a Some QN signals have two meanings, the difference depending on how or by whom preface to transmission of a message, carries its first meaning; when used by a station meaning. (b) QNI, when used by the NCS, is a request for stations to report in; when used by a net station, it means that this station is reporting in. (c) QNJ, when used alone, has its first meaning; when followed by a call, it has the second meaning.
- QN signals are never followed by a question mark, even though the meaning may be interrogatory.
- 5. Do not use QN signals on phone nets. Say it with words.
- Use QN signals in nets only. They are not for use in casual amateur conversation.
- "Q" signals in traffic nets, for meanings not covered by QN signals. Examples: QRU, QRV, QSV, QTA, QTB, QTX, etc. (See Make frequent use of standard international Operating an Amateur Radio Station.)

LET'S DO SOME SOUL SEARCHING By Marsh Lincoln K9KTL

Another year will soon be upon us, and with it comes a new set of club officers and a new schedule of programs. At such a time it is important for all club members to seriously consider what each wants the club to be and to do in the coming year.

This is especially important right now because the IRC is not as healthy as it should be. Attendance at meetings has fallen off badly. The Indianapolis area ham directory, on the verge of becoming a traditional project with the IRC, went down in miserable defeat. A few of the local ham fraternity mutter darkly under their breaths about the IRC. We had to rely on a high school group to operate on Field Day this year. (No criticism of them intended-they did a mighty fine job.) Support for other club projects has been weak and disinterested. A few examples from projects in which I have been involved:

Only a very small handful of club members showed any interest in handling communications for the Ninety-Nines airlifts last year, although a number of operators in other parts of the state were eager to help out. After a test of an airborne ham station was announced, only one operator other than the three already directly involved showed up on the air-and he was not a club member! When a earlier test of a proposed special state net was made, we had many stations on the air, from Logansport to Anderson to Muncie to Terre Haute to Bloomington to Shelbyville--but only a couple from the IRC--and it was an IRC project!

When it was proposed that we trade off the well-worn Gooney Box (which gets very little use anymore, although it still works fine) and get a piece of test equipment, very little interest was shown. When it was suggested we buy a generator to have available for emergency communications needs (one of our responsibilities as amateurs), it took nearly a year of fiddling around before the job got done. After we finally got the generator, some members still didn't understand why we got it. Some thought it was just for Field Day, and others thought it was to be loaned out to members like the Gooney Box and tube checker.

About three months ago, a proposal was made for code and

theory classes to help not just club members but any local interested hams upgrade their abilities to prepare for a higher class license exam. As of this writing, virtually nothing has been done--again because nobody seems interested enough to grab the ball and run with it.

This just isn't like the Indianapolis Radio Club. This club has a long, colorful and proud history, and it has many members of considerable ability. Unfortunately, too many of these members have become "eating members." They are content to sit and watch and listen, while contributing nothing to the club in the way of enthusiasm, ideas or work. However, they do partake vigorously of the refreshments.

Recently it was learned the nominee for president would be unable to serve, so a search was made for a replacement candidate. The list of members was scanned, one by one. As the names were read off, the comment made after most names was either "seldom comes to meetings" or doesn't want to serve as an officer." Why is it that the people who grumble and mutter about the IRC being run by a clique never face the truth; the clique is composed of the people willing to do the work.

If you're tired of seeing the same faces up front at the meetings, why don't YOU let it be known you'd like to help? If you're tired of the kind of programs we've been having and want something different, why don't YOU suggest some program ideas--and then make yourself available to help if needed to make the programs successful? If you're tired of reading this sermon, why don't YOU contribute some news items to the club paper or offer to write an article on your favorite phase of ham radio?

A healthy, vigorous club can accomplish many things that individuals cannot do for themselves. Are YOU doing YOUR PART to support YOUR radio club?

* *

WANTED -- A new editor for the Ama-Chewer. Must be able to type 60 words a week, stay awake during first half of business meetings (until bills are voted on), and correct spelling errors in Lucas' copy. Will trade for secluded acreage in Arizona having two giant saguaro cactus plants 130 feet apart.

Official Bulletin Nr 32 Nov 4 1965

The annual ARRL cross-indexed Net Directory is now ready for distribution and copies are being mailed to those who have requests on file. Other copies will be mailed only upon specific request. There is no automatic mailing list. If you want a copy of the new ARRL Net Directory, mail or radio a request to the ARRL Communications Department, 225 Main Street, Newington, Connecticut 06111

Official Bulletin Nr 33 Nov 11 1965

ARRI Affiliated Clubs and their members are reminded of the continuing availability of training aids designed to enhance club education and interest. The League's Training Aids Program includes technical films, film strips and slide collections as well as quizzes and tape recordings on many phases of amateur radio technique, operation and history. Affiliated Club officers should request ARRL training aids well in advance of the date required. Full information is available from the ARRL Communications Department.

Special WIAW Bulletin Nr 728 Nov 12 1965 (reprinted here in shortened form)

available on an as is basis from cities where released at no charge for use by licensed amateur operators who will use it more than a single unit may write him if they include a self addressed stamped envelope and please not to telephone . . . It is the present policy of the Western Union Telegraph Co. for amateur traffic handling or training. Mr. Frank White, Address Frank C. White, 2706 Harmon Rd., Silver Spring, Md. to make certain surplus teleprinter and related equipment amateur radio societies with teleprinter members. A radio RTTY equipment which the local amateur society will use or equipment available and to get authorization for claiming W3PYW, has been named coordinator between W. U. and local that amateur radio club groups and RTTY group members, in club cleared with W3 PYW must normally claim and sign for distribute to individual amateurs W3PYW suggests order to receive further information on prospective RITY

Official Bulletin Nr 34 Nov 16 1965
A reciprocal operating agreement becomes effective November 28 between the United States and Colombia. Amateurs of one country visiting or residing in the other may obtain permission to operate their own amateur stations there. The

United States has previously reached such agreements with Australia, Belgium, Bolivia, Canada, Costa Rica, the Dominican Republic, Ecuador, Luxembourg, Peru, Portugal and Sierra Leone. Many others are being negotiated and successes will be announced as they occur.

Official Bulletin Nr 35 is omitted. It concerned election of ARRL directors from several divisions outside our area. Information may be found in QST.

Official Bulletin Nr 36 Dec 2 1965

F I radioteleprinter operation is currently authorized in the non-voice portions of the 80, 40, 20 and 15 meter bands. To bring ten meters into line with this basic allocation principle on other high frequency bands, the ARRL Executive Committee has directed the filing of a petition with the Federal Communications Commission seeking authorization for RTTY in the Al segment 28.0 to 28.5 megacycles. It is anticipated that, as on other bands, RTTY stations will voluntarily select a spot frequency or two to centralize such activity.

Official Bulletin Nr 37 Dec 9 1965

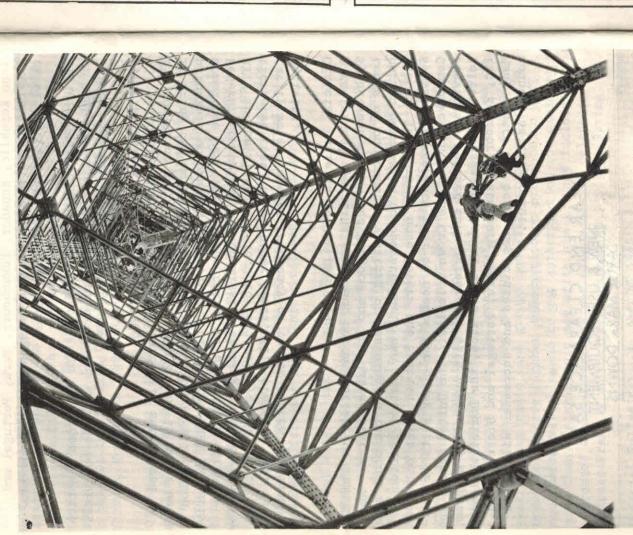
A reciprocal operating agreement becomes effective immediately between the United Kingdom and the United States. Amateurs of one country visiting or residing in the other may
obtain permission to operate their own amateur stations
there. The current note covers the British Isles only.

Separate agreements will be needed for other parts of the
Commonwealth and the Crown Colonies. The United States has
previously reached such agreements with Australia, Belgium,
Bolivia, Canada, Colombia, Costa Rica, the Dominican Republic, Ecuador, Luxembourg, Peru, Portugal and Sierra Leone.
Many others are being negotiated and successes will be announced as they occur.

*

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